

Work Order ID 68622

Monday, April 18, 2011 3:49:40 PM



Page 1

Item ID: D350-689-041

Accept



Setup Start



Revision ID:

Stop



Item Name: Dual High Back Seat Ass'y

Start Date: 4/18/2011 Start Qty: 1.00



Cust Item ID:

Required Date: 4/28/2011 Req'd Qty: 1.00



Customer:

Reference:

Approvals: Process Plan: MF Date: 11-04-18 Tooling: _____

Date: _____

Run Start



QC: _____ Date: _____ SPC (Y/N): _____

Date: _____

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
DSI 9498	A
IIN D350-689	A

100



Large Fab

Large Fab

0.00

Memo

0.00

Large Fab

Assemble as per IIN 350-689-041

EL 11-5-2.
EP 11/05/02 (1)

110



QC

QC5- Inspect part completeness to step on W/O

0.00

Memo

0.00

Quality Control

8/10/02

(+)

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 68622

Monday, April 18, 2011 3:49:40 PM



Page 2

Item ID: D350-689-041

Accept



Setup Start



Revision ID:

Item Name: Dual High Back Seat Ass'y

Stop



Start Date: 4/18/2011 Start Qty: 1.00



Cust Item ID:

Required Date: 4/28/2011 Req'd Qty: 1.00



Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start



Stop



Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

120



Powdercoat

Powder Coating

Grey Sandtex(Ref:4.3.5.6) per QSI005 4.3

0.00

M 115964

Memo

0.00

START TIME:

OVEN TEMPERATURE:

FINISH TIME:

3:15
380°
8:45

1 11-5-2

130



QC

Quality Control

QC3- Inspect Part Finish

0.00

Memo

0.00

1 6 11-5-2

140



Large Fab

Large Fab

Large Fab

0.00

Memo

0.00

Assemble as per Dwg IIN-D350-689

9/5/05/03 @

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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NOTE: Date & initial all entries

Work Order ID 68622

Monday, April 18, 2011 3:49:40 PM

Page 3

Item ID: D350-689-041

Accept

Setup Start

Revision ID:

Stop

Item Name: Dual High Back Seat Ass'y

Start Date: 4/18/2011 Start Qty: 1.00

Cust Item ID:

Required Date: 4/28/2011 Req'd Qty: 1.00

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

150

QC5- Inspect part completeness to step on W/O

0.00



QC

Memo

0.00

Quality Control

160

Identify as per dwg & Stock Location: _____

0.00



Packaging

Memo

0.00

Packaging

170

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

11/5/3

MF
11-05-03

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Monday, April 18, 2011 3:49:32 PM

Page 1

Work Order ID: 68622

Parent Item: D350-689-041

Parent Item Name: Dual High Back Seat Ass'y



Start Date: 4/18/2011

Required Date: 4/28/2011

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:H Removed Sub-Parts 06-02-09 JLM
 IPP Rev:I As per NCR 070 06-09-06 JLM
 DSI 9498 DD 10.02.12 verified by:JLM
 IPP Rev:J as per

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
AN3-12A Bolt		Purchased	No			140	Each	119.0000	3	3			
<div> <div>Location</div> <div>ST351</div> <div>114536</div> <div>116786</div> </div> <div> <div>Loc Qty</div> <div>119</div> <div>19</div> <div>100</div> </div> <div> <div>Loc Code</div> </div>													
AN960JD10L Washer	NAS1149D0332J	Purchased	No			140	Each	0.0000	17	17			
<div> <div>Location</div> <div>4D M117291 (17x)</div> </div>													
D3016-041 Seat Frame Assembly		Manufactured	No			110	Each	0.0000	1	1			
<div> <div>Location</div> <div>68616-1 x1</div> </div>													
D3017-041 Back Frame Assembly		Manufactured	No			110	Each	0.0000	1	1			
<div> <div>Location</div> <div>68730 x1</div> </div>													
D3021-041 Tube Assembly		Manufactured	No			140	Each	0.0000	1	1			
<div> <div>Location</div> <div>68731 x1</div> </div>													
D3022-1 Seat Pan		Manufactured	No			140	Each	5.0000	1	1			
<div> <div>Location</div> <div>WA025</div> <div>52352</div> </div> <div> <div>Loc Qty</div> <div>5</div> <div>5</div> </div> <div> <div>Loc Code</div> </div>													

4/11/05/03

3

4/11/05/03

EL 11-5-2

EL 11-5-2

EL 11-5-2

EL 11-5-2

1

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Monday, April 18, 2011 3:49:33 PM

Page 2

Work Order ID: 68622

Parent Item: D350-689-041

Parent Item Name: Dual High Back Seat Ass'y

Start Date: 4/18/2011

Required Date: 4/28/2011

Start Qty: 1.00

Required Qty: 1.00

D3023-1



Manufactured No

110

Each

0.0000

1

1

Back Panel

68733 x1



EL 11-5-2

D3024-1



Manufactured No

140

Each

8.0000

3

3

Spacer



EP 11/05/03

Location

Loc Qty

Loc Code

ST030

8

43394

2

50343

6

B68734 (12)

D3028-1



Manufactured No

140

Each

6.0000

4

4

Stud



EP 11/05/03

Location

Loc Qty

Loc Code

ST031

6

42446

6

B68620 (20)

D3029-1



Manufactured No

140

Each

2.0000

2

2

Spring



EP 11/05/03

Location

Loc Qty

Loc Code

ST034

2

46848

2

B68602

2

D3030-1



Manufactured No

140

Each

2.0000

2

2

Lock



EP 11/05/03

Location

Loc Qty

Loc Code

ST031

2

50363

2

B68608 (20)

Monday, April 18, 2011 3:49:33 PM

Shop Packet Print

Page 2

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

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Picklist Print

Monday, April 18, 2011 3:49:33 PM

Work Order ID: 68622

Parent Item: D350-689-041


Parent Item Name: Dual High Back Seat Ass'y

Start Date: 4/18/2011

Required Date: 4/28/2011

Start Qty: 1.00

Required Qty: 1.00

X D3031-1

 Loop

Manufactured No

140 Each

5.0000

2



EP 11/05/03
B68621 (12)

Location

Loc Qty

Loc Code

ST031

5

43395

5

MS20600-AD4W2

Purchased

No

110

Each

468.0000

40



EP 11/05/02

Rivet

Location

Loc Qty

Loc Code

ST321

468

114348

8

116391

100

116471

60

116805

100

117317

200

MS20600-AD4W3

Purchased

No

140

Each

877.0000

6



EP 11/05/02

Cherry Rivets

Location

Loc Qty

Loc Code

ST321

456

111636

456

WA018

421

107939

421

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Monday, April 18, 2011 3:49:33 PM

Page 4

Work Order ID: 68622

Parent Item: D350-689-041

Parent Item Name: Dual High Back Seat Ass'y

Start Date: 4/18/2011

Required Date: 4/28/2011

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

Purchased

No

140

Each

2,525.000

17

17



Nut



EPB 11/05/03

Location

Loc Qty

Loc Code

ST300

2525

116391

151

116540

800

116549

774

117441

800

17

MS21042L4

Purchased

No

140

Each

5,474.000

6

6



Nut



EPB 11/05/03

Location

Loc Qty

Loc Code

ST300

5474

116188

474

116823

2000

117441

3000

6

MS24693-S272

Purchased

No

140

Each

101.0000

4

4



Screw



EPB 11/05/03

Location

Loc Qty

Loc Code

ST288

101

116391

17

116737

84

4

MS27039-1-17

Purchased

No

140

Each

54.0000

4

4



Screw



EPB 11/05/03

Location

Loc Qty

Loc Code

ST292

54

11540

54

4

Monday, April 18, 2011 3:49:33 PM

Shop Packet Print

Page 4

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Monday, April 18, 2011 3:49:33 PM

Page 5

Work Order ID: 68622

Parent Item: D350-689-041

Parent Item Name: Dual High Back Seat Ass'y

Start Date: 4/18/2011

Required Date: 4/28/2011

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-19

Purchased

No

140

Each

114.0000

6

6



Screw



4/14/05/03

Location

Loc Qty

Loc Code

ST292

114

100089

14

112794

100

2
4

MS27039-4-21

Purchased

No

140

Each

48.0000

6

6



Screw



4/14/05/03

Location

Loc Qty

Loc Code

ST293

48

114055

2

116845

46

6

NAS1149D0432J

Purchased

No

140

Each

262.0000

6

6



WASHER



4/14/05/03

Location

Loc Qty

Loc Code

ST298

262

114718

62

116583

200

6

Monday, April 18, 2011 3:49:33 PM

Shop Packet Print

Page 5

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D350-689 REV. A
AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D350-689 REV 0

REF TCCA STC: SH02-33
REF FAA STC: SR01620NY
REF EASA STC: EASA.IM.R.S.01453
REF BRAZILIAN STC: 2005S03-09

68627

PURPOSE:

TO UPDATE THE PARTS LIST AND THE WEIGHT AND BALANCE TABLE IN IIN-D350-689 REV A AND ICA-D350-689 REV 0.

CHANGE:

FOR D350-689-011 AT CHANGE 003, D350-689-021 AT CHANGE 002, D350-689-041 AT CHANGE 002 AND D350-689-043 AT CHANGE 002, QTY (6) OF: MS27039-1-19 SCREW; MS21042L3 NUT & AN960JD10L WASHER REPLACED WITH QTY (6) OF: MS27039-4-21 SCREW; MS21042L4 NUT & NAS1149D0432J WASHER RESPECTIVELY. FIGURE 6 (PG 9) OF IIN-D350-689 MODIFIED PER SHT 2 OF THIS SERVICE INSTRUCTION. THE HARDWARE SECTION OF THE PARTS LIST IN SECTION 5 (PG 10) OF IIN-D350-689 REV A & SECTION 25.6 (PG 31) OF ICA-350-689 REV 0 IS AMENDED AS FOLLOWS:

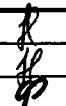
Qty -011	Qty -013	Qty -021	Qty -023	Qty -041	Qty -043	Part Number	Description
X						D350-689-011	DUAL HIGH BACK SEAT INSTALLATION, LH
1	X					D350-689-013	FLOOR PROVISIONS KIT
		X				D350-689-021	DUAL HIGH BACK SEAT INSTALLATION, LH (REF DSI 9419)
		1	X			D350-689-023	ENERGY ATTENUATING FLOOR PROVISION KIT (REF DSI 9419)
1				X		D350-689-041	DUAL HIGH BACK SEAT ASSEMBLY
		1			X	D350-689-043	DUAL HIGH BACK SEAT ASSEMBLY (REF DSI 9419)
	6			17	17	NAS1149D0332J	WASHER (OR AN960JD10L)
			9			NAS1149D0363J	WASHER (OR AN960JD10)
				6	6	NAS1149D0432J	WASHER (OR AN960JD416)
				3	3	AN3-12A	BOLT
16						MS20426AD3-6	RIVET
			14			MS20426AD4-5	RIVET
17						MS20426AD4-6	RIVET
18			34			MS20470AD4-5	RIVET
2			18			MS20470AD4-6	RIVET
30			32			MS20470AD5-6	RIVET
				40	40	MS20600AD4W2	RIVET
				6	6	MS20600AD4W3	RIVET (REF DSI 9349)
8						MS21059L3	NUTPLATE
6						MS27039-1-10	SCREW
				4	4	MS27039-1-17	SCREW
				6	6	MS27039-1-19	SCREW
				6	6	MS27039-4-21	SCREW
				4	4	MS24693-S272	SCREW
2						MS24693-S273	SCREW
				8		MS24694-S3	SCREW
			9			MS24694-S50	SCREW
				4		MS24694-S148	SCREW
			9	17	17	MS21042L3	NUT (OR MS21042-3)
				6	6	MS21042L4	NUT (OR MS21042-4)

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 10.01.21
CERT. NO.: SH02-33
ISSUE NO.: 1

A	NEW ISSUE.	JPH	10.01.21
REV.	DESCRIPTION	BY	DATE
DESIGN	 DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	DRAWING NO. REV. A	
DRAWN		DSI 9498 SHEET 1 OF 2	
CHECKED			
MFG. APPR.		N/A	
APPROVED		TITLE SCALE	
DE APPR.	SEAT REINF; IIN & ICA UPDATE NTS		
DATE	10.01.21		
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W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE		By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

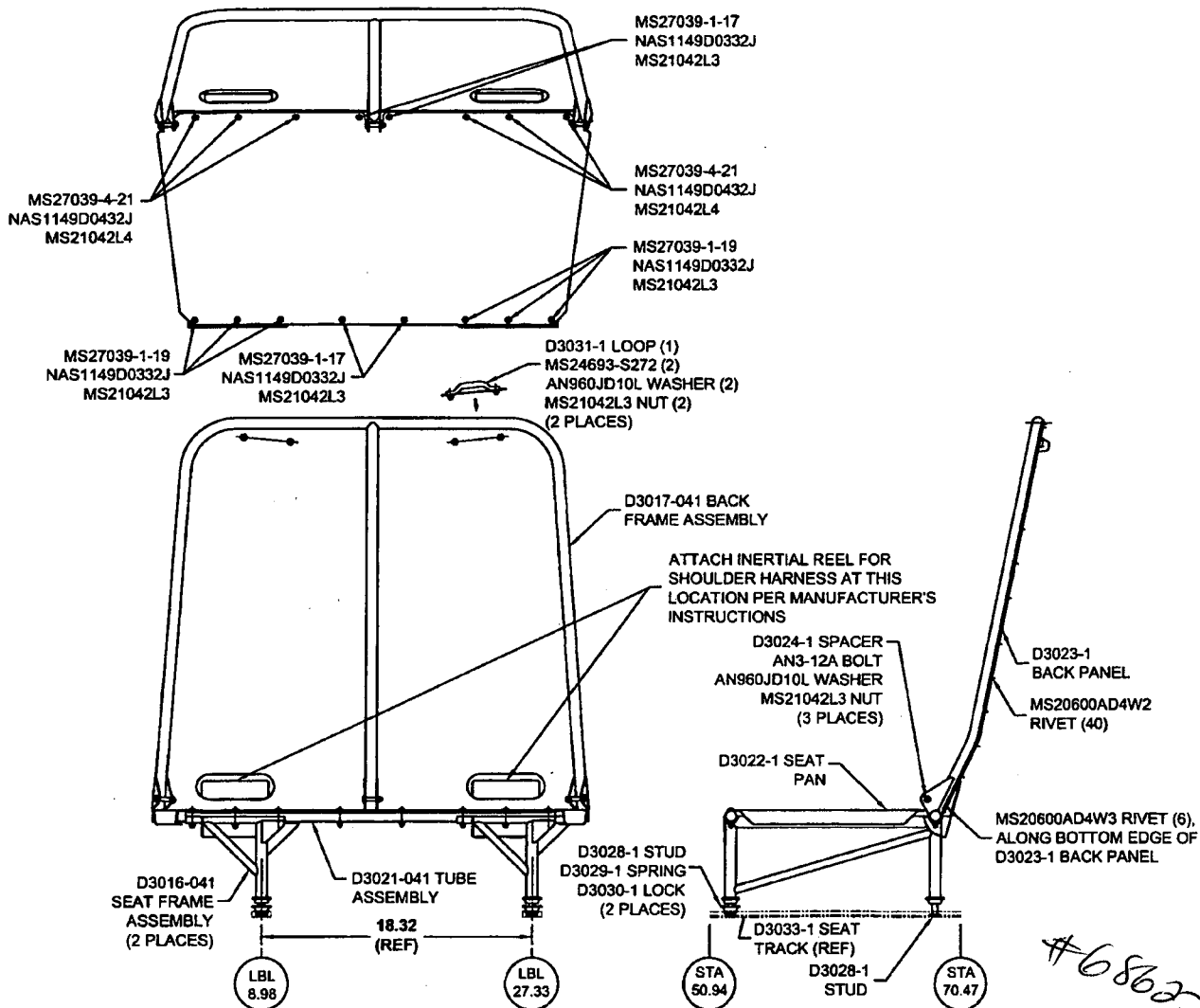
NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

CHANGE:

THE FOLLOWING WEIGHT AND BALANCE INFORMATION IS FOR THE D350-689-011 DUAL HIGH BACK SEAT AT CHANGE 003 (OR LATER) AND THE D350-689-021 DUAL HIGH BACK SEAT AT CHANGE 002 (OR LATER).

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D350-689-011	27.6 lb	-18.2 in	-502 in-lb	60.7 in	1675 in-lb
Dual High Back Seat Installation	12.5 kg	-0.46 m	-5.8 m-kG	1.54 m	19.3 m-kG
D350-689-021 Dual High Back Seat	29.2 lb	-18.2 in	-531 in-lb	60.7 in	1772 in-lb
Installation, LH Fwd Position	13.2 kg	-0.46 m	-6.1 m-kG	1.54 m	20.3 m-kG
D350-689-021 Dual High Back Seat	29.2 lb	-18.2 in	-531 in-lb	64.7 in	1889 in-lb
Installation, LH Aft Position	13.2 kg	-0.46 m	-6.1 m-kG	1.64 m	21.6 m-kG






**REF FIGURE 6 (IIN-350-689)**

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: *[Signature]*
D. SHEPHERD (DE # 02)

DATE: 10.01.21
CERT. NO.: SH02-33
ISSUE NO.: 1

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9498	SHEET 2 OF 2
APPROVED		TITLE	SCALE
DE APPR.		SEAT REINF; IIN & ICA UPDATE	NTS
DATE	10.01.21	COPYRIGHT © 2010 BY DART AEROSPACE LTD	
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W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE		By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries